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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/591,349	06/09/2000	Thomas Boucino	9040.7	2701
. 20792 7	590 09/09/2003			
MYERS BIGEL SIBLEY & SAJOVEC			EXAMINER	
PO BOX 37428 RALEIGH, NC 27627			NGUYEN, CHAU N	
		•	ART UNIT	PAPER NUMBER
			2831	
			DATE MAILED: 09/09/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Applicati n N .	Applicant(s)	0/4
•		09/591,349	BOUCINO, THOM	IAS
Office Action Summary		Examiner	Art Unit	Г
	•	Chau N Nguyen	2831	
	The MAILING DATE of this communication a			Idress
Period fo			·	
THE - Exte after - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a roperiod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, no eply within the statutory minimum od will apply and will expire SIX (6 tute, cause the application to become	nay a reply be timely filed of thirty (30) days will be considered timel) MONTHS from the mailing date of this o me ABANDONED (35 U.S.C. § 133).	ly. ommunication.
1)⊠	Responsive to communication(s) filed on 3	<u>0 July 2003</u> .		
2a) <u></u> ☐	This action is FINAL . 2b)⊠	This action is non-final.		
3)[Since this application is in condition for allo			ne merits is
Disposit	closed in accordance with the practice und ion of Claims	er <i>Ex parte Quayle</i> , 193	5 C.D. 11, 453 O.G. 213.	
4)⊠	Claim(s) <u>5-29 and 40-42</u> is/are pending in the			
	4a) Of the above claim(s) <u>14,15,18-24,27-29</u>	and 42 is/are withdraw	n from consideration.	
•	Claim(s) <u>5-8</u> is/are allowed.			
	Claim(s) <u>9-13,16,17,20,25,26 and 41</u> is/are	rejected.		
•	Claim(s) is/are objected to.			
•	Claim(s) are subject to restriction and	d/or election requiremen	t.	
• • —	ion Papers			
, <u> </u>	The specification is objected to by the Exami		by the Eveniner	
10)	The drawing(s) filed on is/are: a) ac			
11)	Applicant may not request that any objection to The proposed drawing correction filed on			
''/	If approved, corrected drawings are required in		aloupprovou by the Examin	
12)	The oath or declaration is objected to by the	• •		
•	under 35 U.S.C. §§ 119 and 120			
	Acknowledgment is made of a claim for fore	ign priority under 35 U.S	S.C. § 119(a)-(d) or (f).	
,	☐ All b)☐ Some * c)☐ None of:			
,	1. Certified copies of the priority docume	ents have been received		
	2. Certified copies of the priority docume			
* (3. Copies of the certified copies of the particular application from the International See the attached detailed Office action for a light	riority documents have l Bureau (PCT Rule 17.2	peen received in this National	Stage
	Acknowledgment is made of a claim for dome	•		l application)
,	a) The translation of the foreign language			appnoauouj.
	Acknowledgment is made of a claim for dome	• • •		
Attachmer	• •	_		
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s	5) 🔲 Noti	view Summary (PTO-413) Paper No ce of Informal Patent Application (PT rr:	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 9, 10, 13, 16, 17, 25, 26, 40 and 41 are rejected under 35 U.S.C. 102(e) as being anticipated by Gareis (6,297,454).

Gareis discloses a communications cable comprising a cable jacket (43), a spacer (20) extending within the cable jacket, the spacer having a longitudinally extending center portion and plurality of longitudinally extending wall portions

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radiating from the center portion such that the cross-section of the spacer is radially symmetric, the longitudinally extending wall portions decreasing in thickness over only a portion thereof from the center portion to the cable jacket, the spacer and the cable jacket defining a plurality of compartments within the cable jacket, and a twisted pair of insulated conductors disposed in one of the plurality of compartments (re claim 9). Gareis also discloses a plurality of twisted pairs of insulated conductors being disposed in respective ones of the plurality of compartments (re claim 10), the wall portions having a first radial section that increases in thickness with distance from the center portion and a second radial section that decreases in thickness with distance from the center portion (re claim 13), the first and second radial sections being configured such that the wall portions have a convex shaped cross-section, wherein the convex shaped crosssection is arcuate (re claims 16, 17, 40 and 41), the wall portions including a first section having a first thickness, a second section having a second thickness, and a third section having a third thickness, wherein the third section is located between the first and second sections (re claim 25), the first, second and third thicknesses being different from one another (re claim 26).

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Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gareis in view of Boucino et al.

Gareis discloses the invention as claimed except for the compartments having a helical configuration, the twisted pairs extending helically about the longitudinal axis of the cable (claim 12), and each of the twisted pairs having a different lay length (claim 11).

Boucino et al. discloses a communications cable comprising a spacer having compartments with a helical configuration. It would have been obvious to one skilled in the art to modify the compartments of Gareis to have a helical configuration to hold the twisted pairs together as taught by Boucino et al. (col. 4, lines 15-18).

Boucino et al. discloses a communications cable comprising a plurality of twisted pairs, each having a different lay length. It would have been obvious to one skilled in the art to provide each twisted pair of Gareis et al. with a unique lay

length which is different from one another to improve the cross-talk among the pairs as taught by Boucino et al.

Allowable Subject Matter

- 5. Claim5-8 are allowed.
- 6. The following is a statement of reasons for the indication of allowable subject matter: claims 5-8 are allowed in view of the rule 1.131 Declaration filed on March 1, 2002.

Response to Arguments

Applicant's arguments filed June 30th 2003 have been fully considered but they are not persuasive. Applicant again argues that Gareis does not disclose a radially symmetric arrangement because the cross-section of the spacer 21 is oblong. Applicant further states that the arms of the Gareis spacer are not radially symmetric about a central point in the central portion. These arguments are not found persuasive. As shown in Figures 1-3 of Gareis, the spacer 21 is configured with wall portions which are radially symmetric (see Figure 2). Specifically, in Figure 2, there is the X-Y plane (the two cross lines), if one was folding the arm 26 over the X-line, arm 26 would be aligned or exactly on top of arm 27. Likewise, if

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one was folding arms 26 and 27 over the Y-line, arms 26 and 27 would be on top of the two arms on the left side of the Y-line. Accordingly, the wall portions of Gareis are radially symmetric.

Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau N Nguyen whose telephone number is 308-0693. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on (703) 308 3682. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

> Chau N Nguyen Primary Examiner

Charken

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